

INSTITUTE FOR SUSTAINABLE DEVELOPMENT (ISD)

About the Institute:

The Institute for Sustainable Development was established in 2012. The Center for Sustainable Development of the School of Economics was joined to the Institute for Sustainable Development in 2014. The Institute for Sustainable Development substantially expanded since fall of 2020.

Goal: To contribute for sustainable development of Mongolia

Objectives:

1. To conduct research on sustainable development across global, national and local scales;
2. To conduct development policy research to contribute for science based policy development;
3. To conduct sustainable development solution oriented research, and promote technology and innovation implementation.

International Collaboration:

Globally, the Institute for Sustainable Development is promoting the Sustainable Development Index (SDI) globally. Initial idea was to incorporate an environmental dimension into the HDI (Chuluun, 2011). Afterwards inclusion of inequality into the economic index was proposed to make economic growth more inclusive (Chuluun, 2012 and 2015). Finally, it was proposed to include materials or economic footprints (Chuluun 2021, Davaasuren et al., 2022, Munkhzul et al., 2023) to make the SDI more comprehensive, integrating human development, national inclusive growth and reducing planetary pressures. The Institute for Sustainable Development participated in the science review of the SDGs targets (ICSU 2015).

Domestic Collaboration:

Nationally, the Institute for Sustainable Development closely collaborated with the Ministry of Environment and Green Development for development of the Green Development Policy of Mongolia 2030, which was adopted by the Parliament of Mongolia in June 13, 2014.

Locally, the Institute for Sustainable Development has been working on vulnerability assessment of pastoral social-ecological systems (Chuluun et al. 2016), coping with climate extremes for climate compatible development (Ojima et al., 2017) on land cover change analysis (Zang et al. 2022). We also have been collaborating with the Chuo University of Japan for innovative solution project to reduce the *zud* risks since 2014. The research was conducted to predict the *zud* event and more importantly tested renewable energy driven meat freezing systems, designed by the Hitachi company (2 of these systems are located in the NUM's Ovorzaisan Research station). The idea was to slaughter livestock in anticipation of the *zud* events and store the meat in high quality until late spring or early summer to sale with higher price. We have been testing these systems, collaborating with herders' communities.

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